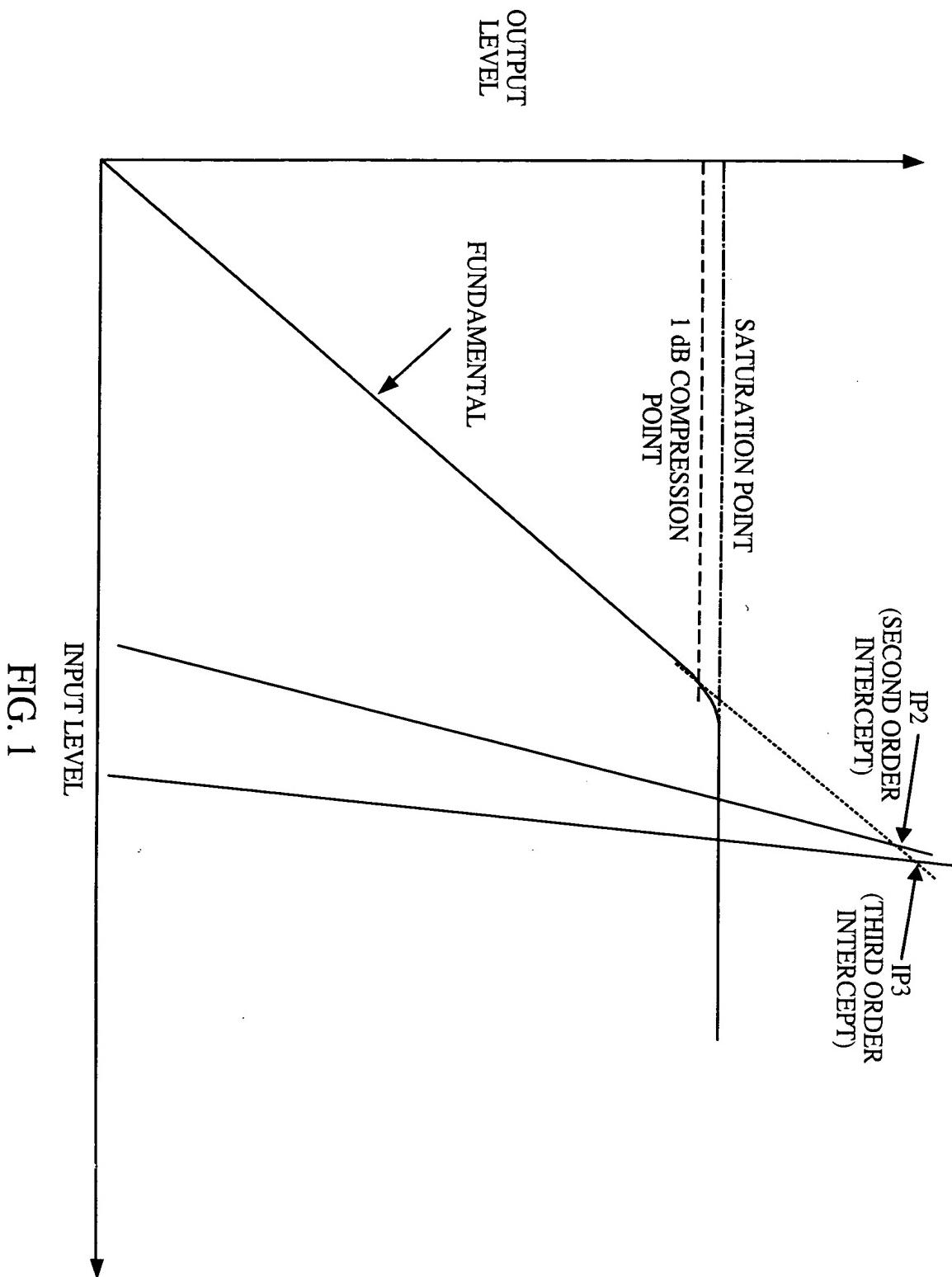
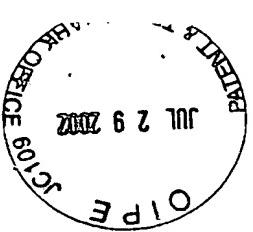
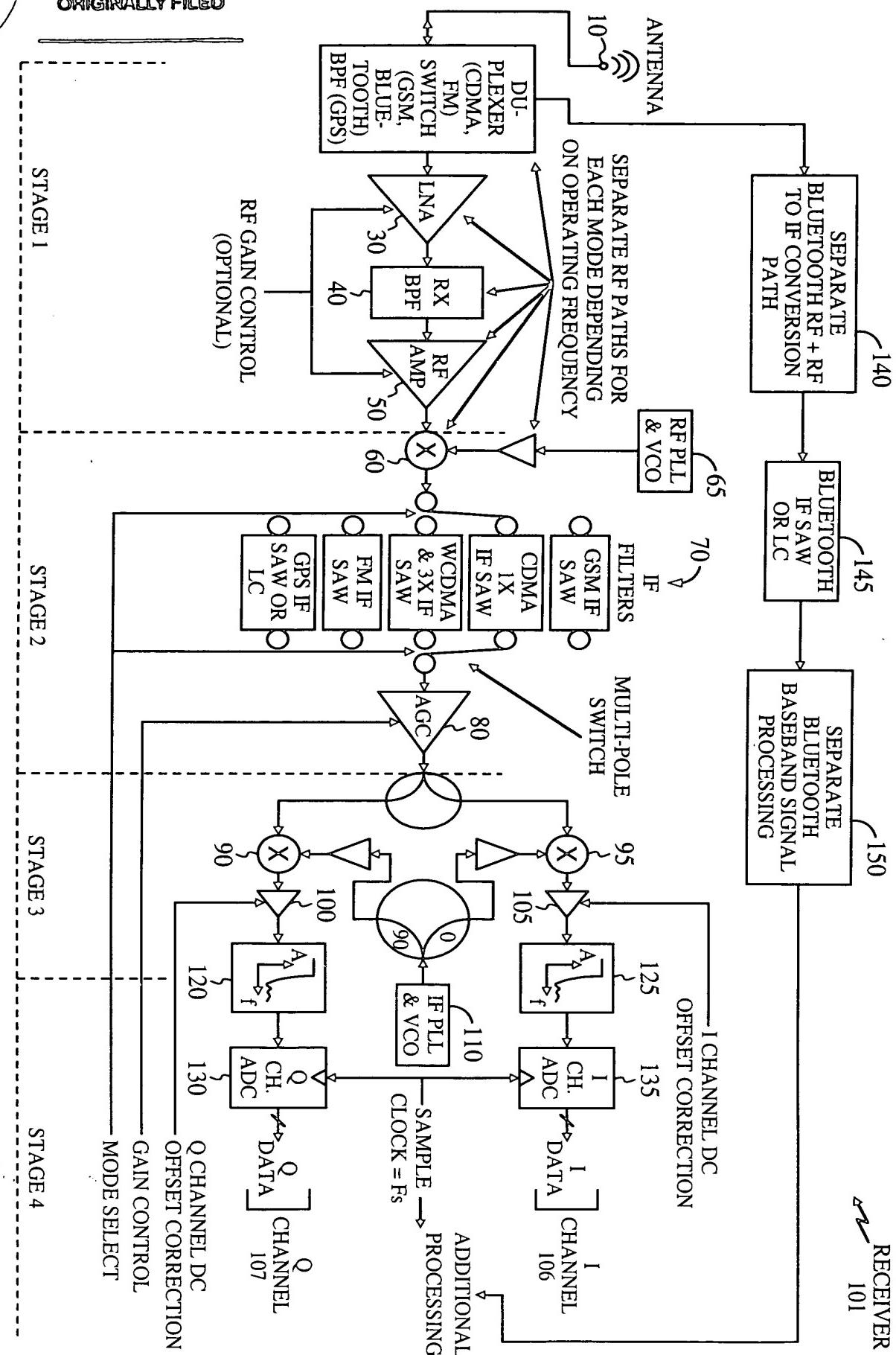


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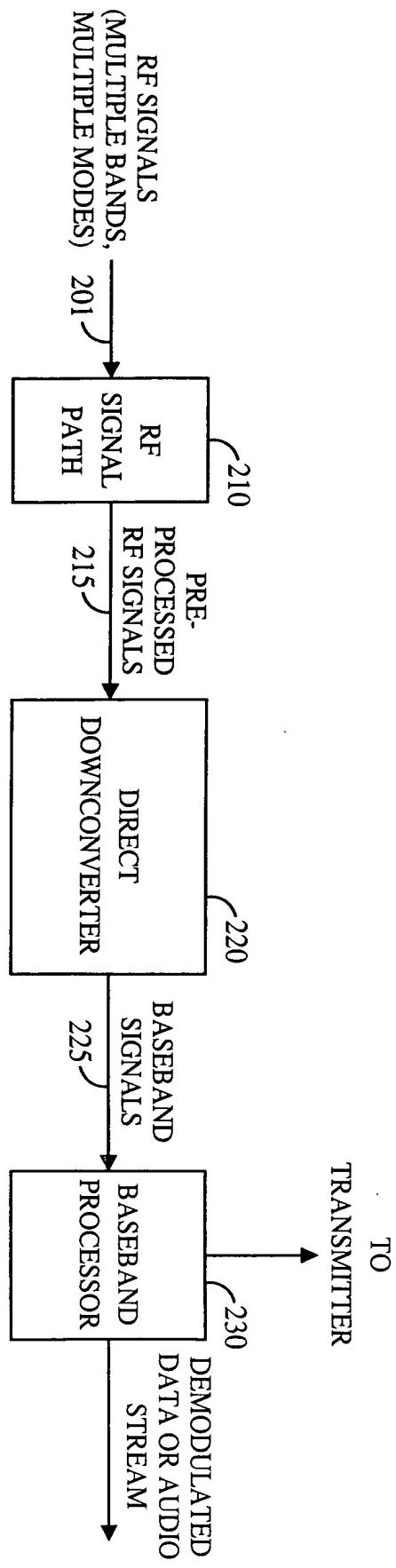
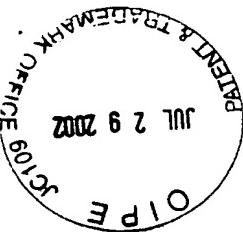
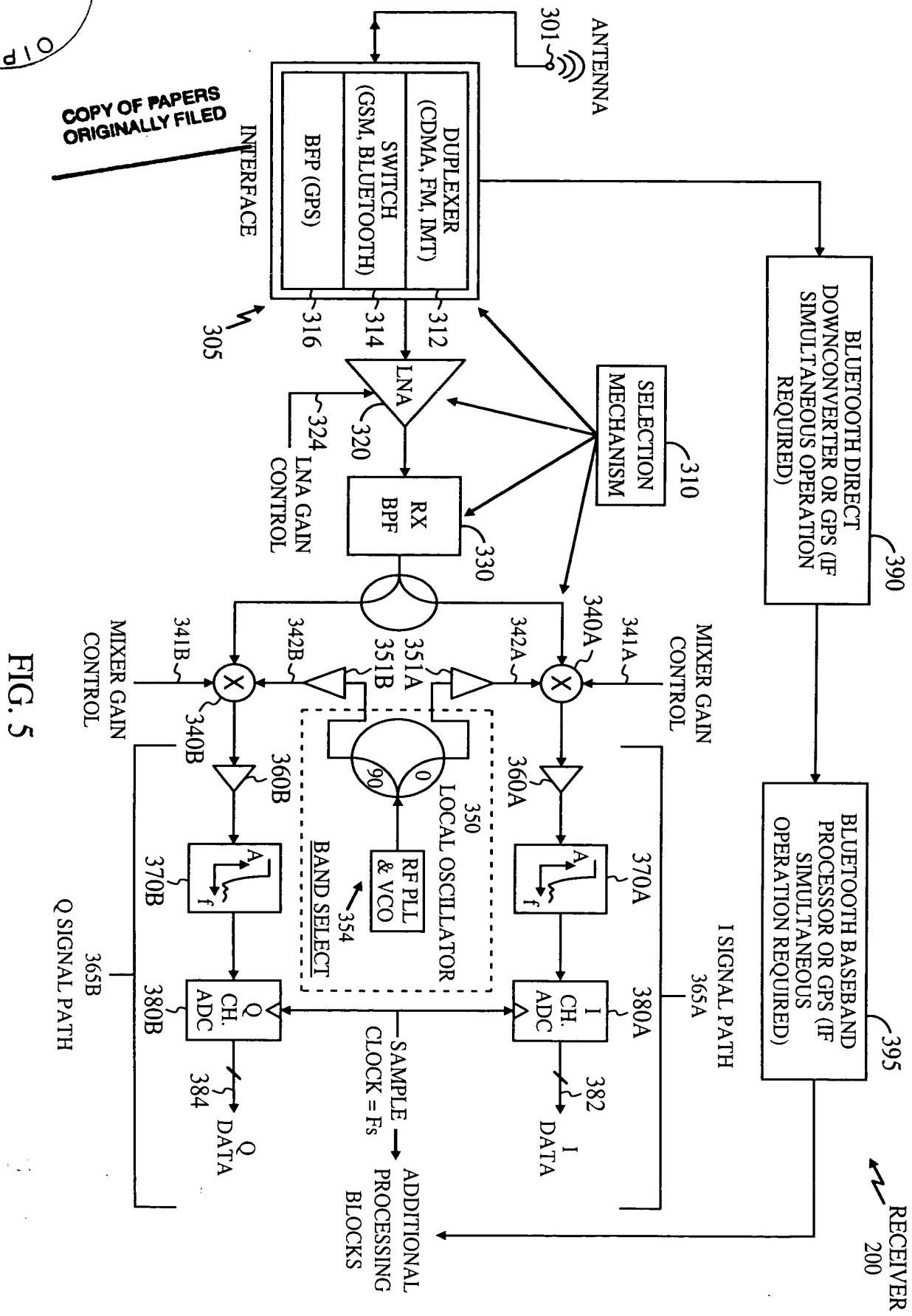


FIG. 4



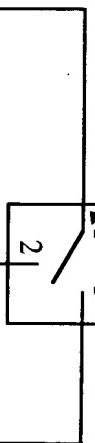
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BYPASS = 1 TO 3, FEEDFORWARD = 1 TO 2, FEEDBACK = 2 TO 3

CROSS-POINT SWITCH

440 → 1 → 3



430 ← 1 ← 3

DIVIDER
(DIVIDE BY N)

RF
VCO
420

401
LOOP
FILTER

I/Q PHASE
SHIFTER
460

SSB MIXER

SECOND
DIVIDER
(DIVIDE BY M)

→ I/Q LO 480 (e.g. PC & IMT)

410

445

VCO = 1, DIVIDER OUTPUT = 2, MIXER OUTPUT = 3
3-POINT SWITCH

REFERENCE
FREQUENCY

FIG. 6

400

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BYPASS = 1 TO 3, FEEDFORWARD = 1 TO 2, FEEDBACK = 2 TO 3

CROSS-POINT SWITCH

440 → 1 3



430

DIVIDER
(DIVIDE BY N)

RF

VCO

401
LOOP
FILTER

410

420

450

460

470

SSB MIXER

I/Q PHASE
SHIFTER

SECOND
DIVIDER
(DIVIDE BY M)

I/Q LO 480 (e.g. PC & IMT)

445 VCO = 1, DIVIDER OUTPUT = 2, MIXER OUTPUT = 3

3-POINT SWITCH

REFERENCE
FREQUENCY

400

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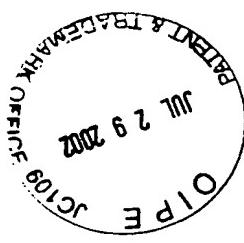
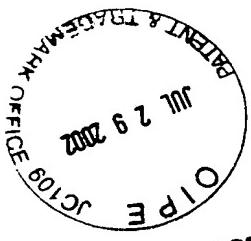
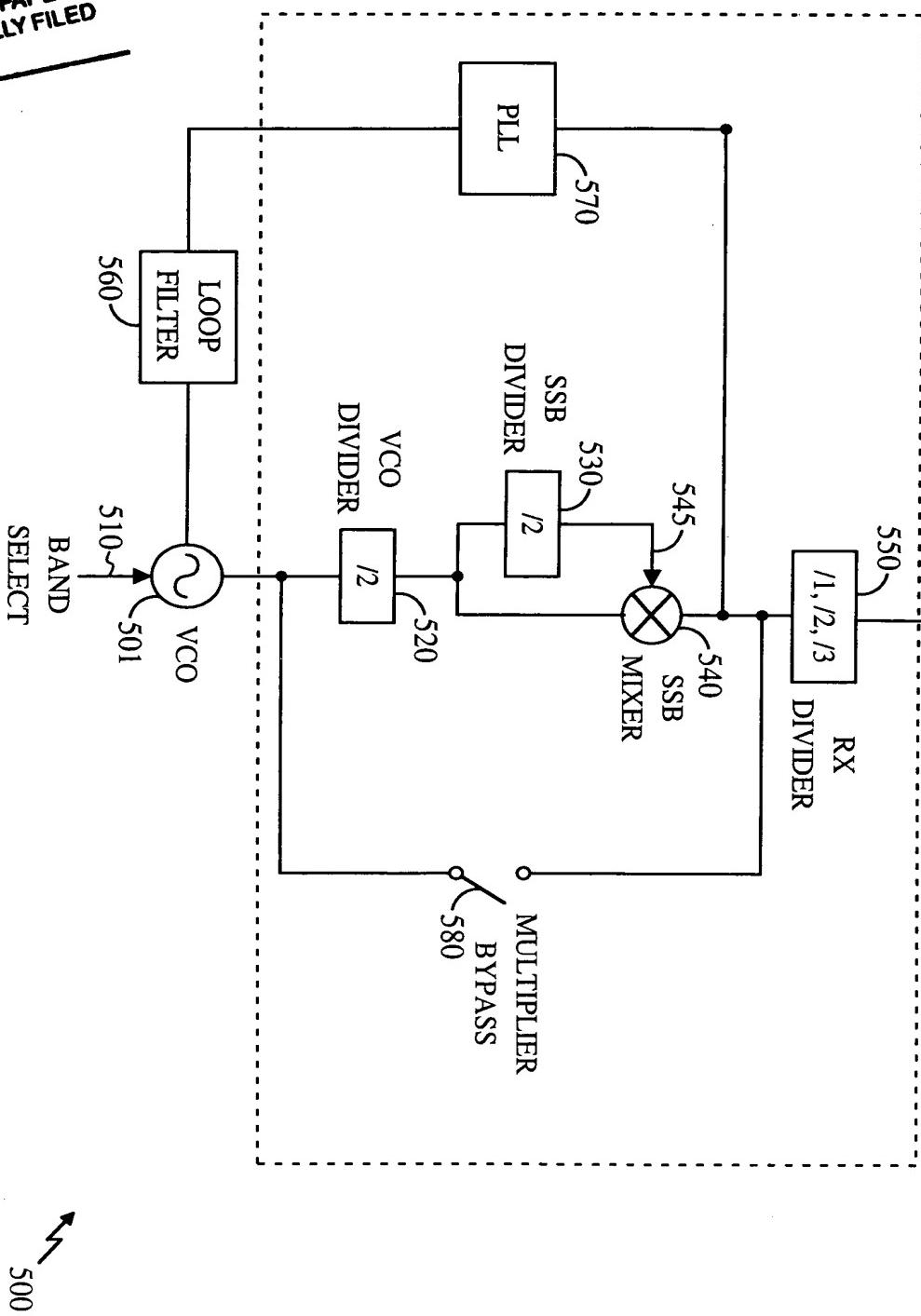


FIG. 6



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FIG. 7





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